

What is claimed is:

1. (Amended) A computer mouse with magnetic orientation, comprising:
a body in which is located a mechanism for sensing the x and y movement of
the body and converting this movement to x and y body movement data;
the body containing a compassing device for determining the magnetic
orientation of the body and converting the magnetic orientation to magnetic
orientation data;
a processor for receiving and processing the x and y body movement data and
the magnetic orientation data, the processing comprising the compensating, in
real time, the x and y body movement data according to the magnetic
orientation data, the processor ~~and for~~ sending the processed data to a
transmitter located in the body;
the transmitter being a wireless transmitter for sending signals based on the x
and y data and the magnetic orientation data in real time.
2. (Original) The mouse of claim 1, wherein:
the compassing device is a solid state sensor.
3. (Original) The mouse of claim 2, wherein:
the sensor comprises two linear magnetic sensors mounted at 90 degrees to
each other.
4. (Original) The mouse of claim 1, wherein:
the mouse includes a user command input switch which is orientation free.
5. (Original) The mouse of claim 4, wherein:
the mouse includes a second user command input switch which is orientation
free.

6. (Amended) The mouse of claim 4, wherein:
the mouse further comprises a flexible exterior cover under which is located a
5 shell, and a first user command input switch which is activated when the shell
cover is squeezed.
7. (Original) The mouse of claim 5, wherein:
the mouse further comprises a flexible exterior cover under which is located a
10 first user command input switch which is activated when the cover is squeezed
and a second user command input switch which is activated when the cover is
depressed.
8. (Amended) The mouse of claim 6, wherein:
15 the first user command input switch comprises two or more radial command
input switches ~~buttons located at generally ninety degrees to one another.~~
9. (Original) The mouse of claim 6, wherein:
the first user command input switch is assuredly activated when a lower rim of
20 the cover is squeezed at any diametrically opposite positions.
- 10 (Original) The mouse of claim 1, wherein:
the body is round.
- 25 11. (Original) The mouse of claim 1, wherein:
the body is round and has mounted on it a base orientation switch which
communicates with the processor.
- 30 12. (Original) The mouse of claim 10, further comprising:
a ball bearings assembly interposed between the body and a retaining ring, the
assembly providing the mouse with a lower friction coefficient in a rotational
mode than in a linear mode.

13. (Original) The mouse of claim 1, further comprising:
a compass disabling switch.

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14. (Original) The mouse of claim 1, further comprising:
a first circuit board on which is mounted an optical sensor for generating x and
y data.

10 15. (Original) The mouse of claim 1, further comprising:
a circuit board carrying a vertically oriented user command input switch.

15 16. (Original) The mouse of claim 14, further comprising:
a second circuit board, located above the first circuit board, the second circuit
board carrying batteries for operating the mouse.

17. (Amended) The mouse of claim 15, further comprising:
a semi-rigid shell interposed between a flexible outer cover and the circuit
board;
20 the shell transmitting a downward force from the cover to the vertically oriented
switch.

18. (Amended) The mouse of claim 6, wherein:
the first user command input switch comprises three ~~buttons~~ switches located
25 at generally one hundred and ~~eighty~~ twenty degrees to one another.